

# IS-900<sup>®</sup> MicroTrax<sup>®</sup> Devices **6-DOF Motion Trackers**

Precision Inertial-Ultrasonic  
Motion Tracking for  
Immersive Displays

# IS-900<sup>®</sup> MicroTrax<sup>®</sup> Devices

The IS-900<sup>®</sup> MicroTrax<sup>®</sup> precision motion tracking devices brings an unprecedented level of convenience, comfort and elegance to immersive 3D applications. The devices are lighter and smaller to enhance the use of passive stereo applications.



**Passive Stereo Solution** You can now wear passive or active glasses with the smooth tracking technology of the IS-900 Systems. The new MicroTrax Head Tracker mounts easily to passive glasses and the minimal weight is so comfortable that you may forget you are wearing a tracker. The new MicroTrax devices are smaller and lighter for greater comfort.

**Excellent Ergonomics** The MicroTrax devices have a whole new ergonomic design. The new Head Tracker is over 40% smaller than the previous generation. The new wand design brings unprecedented comfort, especially during long-term sessions.

## Technical Specifications

### Performance Specifications

- MicroTrax Devices are Compatible with IS-900 VETracker and SimTracker Processors Only (1U chassis)
- Degrees of Freedom 6 (X, Y, Z, Yaw, Pitch, and Roll) with MicroTrax Devices
- Angular Range Full 360<sup>°</sup> – All Axis
- Resolution 0.75 mm (1.5 mm Wireless) 0.05<sup>°</sup>
- Static Accuracy 2.0 – 3.0 mm 0.25<sup>°</sup> RMS in Pitch & Roll, 0.50<sup>°</sup> RMS in Yaw (Standard MicroTrax)
- Update Rate 180 Hz Nominal
- Latency 4 ms Typical
- Maximum Tracked Devices 4 for SimTracker 7 for VETracker
- Standard Cable Lengths 12.0 m (IS-900 Processor to MicroTrax Device)
- Maximum Cable Lengths System Configuration Dependent (Ask Your InterSense Representative)

### MicroTrax Devices and Accessories

**Head Tracker** – Available wired  
Weight: 1.4 ounces (40g)  
Dimensions: 4.0 inches x 0.6 inches x .05 inches (10.16 cm x 1.5 cm x 1.3 cm)  
with 15 and 35 foot cables

**Wand**  
Wired weight: 4.9 ounces (140g)  
Dimensions: 6.88 inches x 4.0 inches x 2.12 inches (17.5 cm x 10.1 cm x 5.3 cm)  
with 15 and 35 foot cables

Specifications are subject to change without notice.

### Thales Visionix

A Division of Thales Defense & Security, Inc.

700 Technology Park Drive, Suite #102 | Billerica, MA 01821  
P: +1.781.541.6330 | E-mail: sales@thalesvisionix.com  
www.intersense.com | www.thalesdsi.com



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